



UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office

Address: COMMISSIONER OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

SERIAL NUMBER	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
---------------	-------------	----------------------	---------------------

09/377,286 08/18/99 RUMSEY

B MICT-0050-US

EXAMINER

MMC2/0314

TROP PRUNER HU & MILES PC  
8554 KATY FREEWAY SUITE 100  
HOUSTON TX 77024

ART. UNED. PAPER NUMBER

5

2841

DATE MAILED: 03/14/01

This is a communication from the examiner in charge of your application.  
COMMISSIONER OF PATENTS AND TRADEMARKS

☒ This application has been examined ☒ Responsive to communication filed on 1/23/01 ☐ This action is made final.

A shortened statutory period for response to this action is set to expire \_\_\_\_\_ month(s), \_\_\_\_\_ days from the date of this letter.  
Failure to respond within the period for response will cause the application to become abandoned. 35 U.S.C. 133

Part I THE FOLLOWING ATTACHMENT(S) ARE PART OF THIS ACTION:

- |   |  |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited by Examiner, PTO-892. | 2. <input checked="" type="checkbox"/> Notice of Draftsman's Patent Drawing Review, PTO-948. |
| 3. <input type="checkbox"/> Notice of Art Cited by Applicant, PTO-1449.                 | 4. <input type="checkbox"/> Notice of Informal Patent Application, PTO-152.                  |
| 5. <input type="checkbox"/> Information on How to Effect Drawing Changes, PTO-1474.     | 6. <input type="checkbox"/>  |

Part II SUMMARY OF ACTION

1. ☒ Claims 1-30 are pending in the application.

Of the above, claims 7-8, 13, 15, 17-18, 20-30 are withdrawn from consideration.

2. ☐ Claims \_\_\_\_\_ have been cancelled.

3. ☐ Claims \_\_\_\_\_ are allowed.

4. ☒ Claims 1-6, 9-12, 14, 16, 19 are rejected.

5. ☐ Claims \_\_\_\_\_ are objected to.

6. ☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

7. ☐ This application has been filed with informal drawings under 37 C.F.R. 1.85 which are acceptable for examination purposes.

8. ☐ Formal drawings are required in response to this Office action.

9. ☐ The corrected or substitute drawings have been received on \_\_\_\_\_. Under 37 C.F.R. 1.84 these drawings are ☐ acceptable; ☐ not acceptable (see explanation or Notice of Draftsman's Patent Drawing Review, PTO-948).

10. ☐ The proposed additional or substitute sheet(s) of drawings, filed on \_\_\_\_\_, has (have) been ☐ approved by the examiner; ☐ disapproved by the examiner (see explanation).

11. ☐ The proposed drawing correction, filed \_\_\_\_\_, has been ☐ approved; ☐ disapproved (see explanation).

12. ☐ Acknowledgement is made of the claim for priority under 35 U.S.C. 119. The certified copy has ☐ been received ☐ not been received ☐ been filed in parent application, serial no. \_\_\_\_\_; filed on \_\_\_\_\_.

13. ☐ Since this application appears to be in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213.

14. ☐ Other

EXAMINER'S ACTION

**DETAILED ACTION**

***Election/Restriction***

1. Applicant's election without traverse of group 1, species A, in Paper No. 4 is acknowledged.
2. The claims 13 (embodiment of figure 3), 15 (element does extend across the solder mask opening, page 7 with respect to embodiment of figure 3), 17 (embodiment of figure 5) and 20 (page 9, line 6, closest description in specification to claim 20 refers to figure 7) are objected to for being drawn to the nonelected species of figures 3-9. Therefore, they are withdrawn from consideration.

***Drawings***

3. The drawings are approved by the draftsman but objected to by the examiner for the following reason.

Figures 2,4,6 and 8 are identified as cross sections, but are not hatched. All of the parts shown in section, and only those parts, must be cross hatched. The cross hatching patterns *should be selected from those shown on page 600-82* of the MPEP based on the material of the part. See also 37 CFR 1.84(h)(3) and MPEP 608.02.

Drawing corrections in compliance with MPEP 608.02(v) are required in response to this office action.

***Claim Rejections - 35 USC § 112***

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claim 16 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. This claim is unclear, because it is uncertain whether the recited functions follows from the claimed structure of the stub and trace or whether they arise from some other structural feature not explicitly stated in the claim. If the former is true, clarification is required. If the latter is true, the claim is incomplete and must be amended to clearly set forth all of the intended elements.

#### *Treatment of Claims Based on Prior Art*

6. 35 USC 102 includes the following sections which state:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371© of this title before the invention thereof by the applicant for patent.

7. Claims 1-6, 9-12, 14, 16 and 19 are rejected under 35 USC 102(b) as being anticipated by Healy et al. (US 3537176, hereafter Healy).

Claims 1-4, 9-12 and 19 are clearly anticipated by figure 1 of Healy.

Claims 5-6 and 14 are clearly anticipated by figure 2 of Healy.

Claim 16: The forces applied to the ball and emulation of the trace all arise (as disclosed by the specification) from the structure of the stub in conjunction with the trace. As this structure

is identically disclosed by Healy, the function of claim 16 must be inherent to the device of Healy.

*Related Prior Art*

8. The following references are considered pertinent to the present application.

Abe (6028366), Schueller (5585162) and Natarajan et al. (5519580) all disclose pads with traces and stubs.

*Closing*

9. Any inquiries related to the examination of this application should be directed to Ex. K. Cuneo at (703) 308-1233 or her supervisor Ex. J Gaffin at (703) 308-3301. Inquiries of a general nature should be directed to the receptionist of Group 2800 at (703) 308-0956. The fax numbers for Group 2800 are (703) 305-7722 and 7724.



K. Cuneo  
Patent Examiner Group 2841  
March 12, 2001